



## **“HI-JET” 6 DECK ROLLER DRYER**

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### **OMECO INDÚSTRIA & COMÉRCIO DE MÁQUINAS LTDA**

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- Proper for drying peeled veneer from 1 to 5mm.
- Compact equipment for the highest capacity with the lowest energy input:
  - Working width: 3.4, 4.0, 4.8, 5.8, 6.2m or other;
  - Height: 5m;
  - Heating medium: steam, thermal oil, hot water, gas or direct firing.
- Capacity: up to 35m<sup>3</sup>/h or more according to length – 2m each section, specify to dry, drying temperature, drying utilization factor, dryer cleaning, etc.



**Modular construction up to 32 drying sections**

- One or more cooling sections for reaching outfeed veneer temperatures of less than 40°C;
- Sealed doors and panels with special painting with 4" fiber glass insulation.



**Semi automatic feeding system with cross chain feeder, heavy duty lift table with cross chain and indexing tipples**



**Fully automatic loader with vacuum feeder**



**Dryer out feed with unloader conveyor**



**Dryer out feed with sequential unloader, cross transfer, moisture detector and dry chain conveyor**

- The continuous moisture detector allows to improve the veneer quality, avoiding over drying, thus reducing glue consumption and increasing dryer capacity.



**6 deck cross transfer**



**Automatic vacuum stackers with manual or Automatic veneer grading.**



Aluminum casted axial fans with adjustable blade pitch for the highest volume of air with the lowest electrical energy consumption.



Carbon steel axial fan to high flow with highest air temperature



- Aerodynamical jet boxes, with increased rows of nozzle type holes, assure uniform air distribution all over drying surface.
- The guiding shape of the jet boxes and the lesser quantity of rollers per section reduce plug-ups and increase veneer quality.



Rollers with 90 or 114 mm diam. within precise dimensional tolerances supported by teflon/graphite or 100% carbon bushings.



Heavy frame of laminated steel beams treated and painted with special and resistant paint.



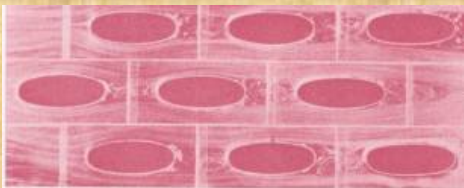


## Heating

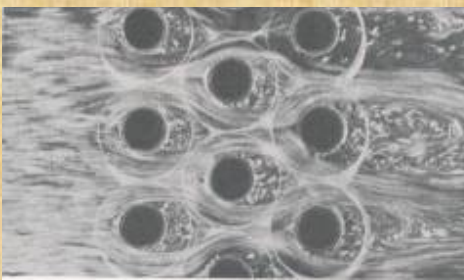
When using steam hot water or thermal oils our high efficiency radiators with elliptical tubes are used.



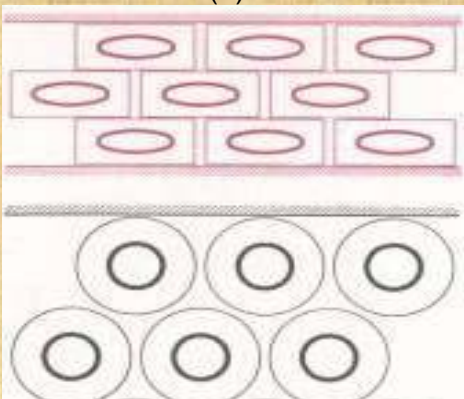
Advantages of the finned elliptical tubes:



(I)



(II)



(III)

- With aerodynamic shape it has small resistance to the air flow. Comparing with round tubes the resistance is 3 to 10 times lower;
- Perfect connection between fins and tubes obtained by fixing the fins with hydraulic pressure;
- Less air pressure drop due to less turbulence – see pictures I and II;
- External surface is 15% higher than the corresponding round tube;
- High heat exchange rates due to smaller hydraulic diameters;
- Compact construction – see picture III.



Dryers can also be direct heated with gas burners or hot air.



Automatic temperature control with modulating steam valve.

Optional automatic air moisture with damper control.



Condensate system with pipe, collector, drain, by-pass, filter, steam trap and check valve for every section.

Optional with condensate pump.



Automatic temperature control system for thermal oil with circulating pump and modulating 3 way valve for each control zone.



Fan system with external motor, shaft, pulleys and "V" belts allowing less electrical energy consumption and easier maintenance.

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